CONTENTS OF VOLUME XIX

INDEX OF AUTHORS

70	
Allen, E. T., article by	Laut, Agnes C., article by
Armstrong, Andrew K., article by 234	Lever, Asbury F., address by
Ayres, Philip, W. article by	McCulloh, Walter, article by
Barnes, Will C., article by	McLoud, Norman C., article by830-967
Barton, J. E., article by	Miller, Warren H., article by 364-769
Berry, James B., article by	Moon, F. F., article by
Brunke, E. R., article by 224-452-919	Moore, Barrington, article by
Bryant, R. C., article by	Mowry, Jesse B., article by
Bush, Carl, article by	Murphy, Louis S., article by
Campbell, Augusta E., poem by 30	Nash, George V., article by
	Peters, J. Girvin, article by
Chadwick, Charles N., article by	Pettis, C. R., article by
Chapman, C. S., article by	Pierce, Roy G., article by
Crissey, Forrest, article by	Pinchot, Gifford, address by
Davis, F. J., article by	Reynolds, Robert V. R., article by 277
Drinker, Dr. Henry S., article by 175-952	Rhodes, J. E., article by
Elliott, F. A., article by	Ringland, A. C., article by
Elliott, S. B., article by	Rodman, Douglas, article by
Ferguson, J. A., article by	Rollins, Montgomery, article by
Fernow, B. E., article by	Roskie, George W., article by
Filley, W. O., article by	Ross, Robert M., article by
Fisher, Hon. Walter L., address by 65	Rothrock, J. T., article by
Gaylord, F. A., article by	Sackett, H. S., article by
Goadby, Arthur, article by	Schaff, Marcus, article by
Graves, Henry S., address by	Schock, Oliver D., article by
Greeley, W. B., article by	Scott, Charles A., article by
Griffith, E. M., article by	Secrest, Edmund, article by
Hague, Arnold, article by	Shackleton, Robert, article by
Hall, R. Clifford, article by	Shull, D. F., article by
Hall, William L., article by 164-321-620	Sterling, E. A., article by
Hanna, Gov. L. R., article by 450	Stone, G. B. M., article by
Harper, Roland M., article by 657	Strain, Robert, Jr., poem by
Hawes, Austin F., article by323-612	Stuart, R. Y., article by
Hawley, Ralph C., article by 688	Swales, R. D., article by
Hill, R. R., article by 578	Thomson, T. Kennard, article by 691
Holmes, J. S., article by	Wachsmuth, Hans, poem by
Homans, G. M., article by	Welch, Jack, poem by
Hough, Romeyn B., article by 547	West, Hon. Oswald, article by 448
Jackson, A. G., poem by	White, J. B., address by
Kneipp, L. F., article by 87	Wilson, Merritt, article by 244
Knowlton, F. H., article by	Wirt, George H., article by
Lamb, George N., article by	Woolley, H. E., article by
Lamb, George 11., article by	7-b Tillian P. anti-la bar

Att Bag Bas

CONTENTS OF VOLUME XIX

INDEX OF AUTHORS

70	
Allen, E. T., article by	Laut, Agnes C., article by
Armstrong, Andrew K., article by 234	Lever, Asbury F., address by
Ayres, Philip, W. article by	McCulloh, Walter, article by
Barnes, Will C., article by	McLoud, Norman C., article by830-967
Barton, J. E., article by	Miller, Warren H., article by 364-769
Berry, James B., article by	Moon, F. F., article by
Brunke, E. R., article by 224-452-919	Moore, Barrington, article by
Bryant, R. C., article by	Mowry, Jesse B., article by
Bush, Carl, article by	Murphy, Louis S., article by
Campbell, Augusta E., poem by 30	Nash, George V., article by
	Peters, J. Girvin, article by
Chadwick, Charles N., article by	Pettis, C. R., article by
Chapman, C. S., article by	Pierce, Roy G., article by
Crissey, Forrest, article by	Pinchot, Gifford, address by
Davis, F. J., article by	Reynolds, Robert V. R., article by 277
Drinker, Dr. Henry S., article by 175-952	Rhodes, J. E., article by
Elliott, F. A., article by	Ringland, A. C., article by
Elliott, S. B., article by	Rodman, Douglas, article by
Ferguson, J. A., article by	Rollins, Montgomery, article by
Fernow, B. E., article by	Roskie, George W., article by
Filley, W. O., article by	Ross, Robert M., article by
Fisher, Hon. Walter L., address by 65	Rothrock, J. T., article by
Gaylord, F. A., article by	Sackett, H. S., article by
Goadby, Arthur, article by	Schaff, Marcus, article by
Graves, Henry S., address by	Schock, Oliver D., article by
Greeley, W. B., article by	Scott, Charles A., article by
Griffith, E. M., article by	Secrest, Edmund, article by
Hague, Arnold, article by	Shackleton, Robert, article by
Hall, R. Clifford, article by	Shull, D. F., article by
Hall, William L., article by 164-321-620	Sterling, E. A., article by
Hanna, Gov. L. R., article by 450	Stone, G. B. M., article by
Harper, Roland M., article by 657	Strain, Robert, Jr., poem by
Hawes, Austin F., article by323-612	Stuart, R. Y., article by
Hawley, Ralph C., article by 688	Swales, R. D., article by
Hill, R. R., article by 578	Thomson, T. Kennard, article by 691
Holmes, J. S., article by	Wachsmuth, Hans, poem by
Homans, G. M., article by	Welch, Jack, poem by
Hough, Romeyn B., article by 547	West, Hon. Oswald, article by 448
Jackson, A. G., poem by	White, J. B., address by
Kneipp, L. F., article by 87	Wilson, Merritt, article by 244
Knowlton, F. H., article by	Wirt, George H., article by
Lamb, George N., article by	Woolley, H. E., article by
Lamb, George 11., article by	7-b Tillian P. anti-la bar

Att Bag Bas

GENERAL INDEX

Page	Page
Additions to Eastern National Forests-	Basket Willow Cuttings 196
William L. Hall	Beaver to the Adirondacks, The Return
Adirondacks, The Return of the Beaver to	of—E. A. Sterling
the—E. A. Sterling	Bills, Pennsylvania's Timber Taxation-
Administration of the National Forests in	Dr. J. T. Rothrock 477
Arizona, Grazing—R. R. Hill 578	Biltmore and Pisgah Forests
Aid by the Women, Valuable	Biltmore Bulletin
Aid Reclamation, Trees to	Biltmore Forest, Directors to Inspect 171
Ailanthus, Trying to Find Uses for 599	Biltmore Forest School
Alabama, The Forest Resources of—Dr.	Biltmore Notes
Roland M. Harper	Black Hills, Fire Protection in the 698
Alaska, Forest Fires in	Blight in Fairmount Park
Alaska, Reindeer Progress in—Lillian E.	Blight in Pennsylvania, The—Oliver D.
Zeh	Schock
Alaska Timber for Paper Pulp 493	Blowing Out a Forest Fire
America, The Incipiency of the Forestry	Book Reviews—See "Reviews"
Movement in—Romeyn B. Hough. 547	Booklet Worth Having
American Forestry Association, Announce-	Borer, The Swedish Increment 492
ment of Annual Meeting 48	Boundaries of National Forest Changed 488
American Forestry Endorsed 451	Boy Scouts as Deputy Tree Wardens 414
American Forestry Headquarters at the	British Columbia, In
Fifth National Conservation Con-	British Columbia Timber Lands 427
gress 829	British Forestry, A New View of Early-
American Forestry Association:	J. S. Holmes 485
Directors Meetings 256-408-465-545	Buffalo Herd Is Increased, Government 635
Annual Forest Conference in the White	Building, \$250,000 for a Forestry 405
Mountains 408	Burning on Pine Forests, Light 692
Annual Meeting, The:	California and Arizona, Government Sells
Announcement of 48	Timber in
Report of 102	California, \$250,000 Damage in-G. M.
Appalachian Commission's Report 48	Homans 746
Appalachian Forest Land, Purchase of 198	California Forest, Increased Grazing in 627
Appalachain Timber Sale, First 332	California Power Development 788
Appreciation, An	California, The Wood Using Industries of
Arbor Vitae, Chinese—Charles A. Scott 15	-Andrew K. Armstrong 234
Argument for Forest Planting, An-Mont-	California, Timber Sales in
gomery Rollins	Canadian Association Active 50
Arizona Forest Reserves, Money for 42	Canadian Forestry Convention 415
Arizona, Grazing Administration in the	Canadian Forestry Meeting
National Forests in—R. R. Hill 578	Cavities of Trees, Gas Contained in—J.
Arizona, The Fossil Forests of—F. H.	A. Ferguson
Knowlton	Cavities, Gas in Tree—William P. Phillips 523
Assessment of Reforested Lands, Graded	Cedar of Lebanon, The—George B. Nash. 392
—Arthur Goadby	Chief Forester of Ireland Here
	Chier Forester Under Civil Service (Ed-
Association, Work for the—Address by	itorial)
Henry S. Graves	China, Conservation Movement in 676
Association Endorsed, American Forestry. 451	China's Interest in Forestry
Astor's Interest in Agriculture, Mr	Chinese Arbor Vitae—Charles A. Scott 15
Attack on the Forest Service	Chinese Students, Other
Bag, Foresters Annual	Chestnut Blight Is Suspended, Pennsyl-
Basket Willows a Profitable Crop—George	vania's Fight Against 556
N. Lamb	Chestnut Trees, Saving-Roy G. Pierce. 248

CONTENTS

Page	Pag
Chestnut, Using Blight-Killed 449	Conservative Lumbering Operation, A-
Chugach Forest, Opposes Abolishing 406	James B. Berry
Circassian Walnut, Demand for 189	Conventions—See Hardwood Manufac-
Classify 150,000 Acres	turers; Pennsylvania Forestry Asso-
Closer Utilization of Timber 862	ciation; Western Forestry and Con-
Closer Utilization, Some Methods of Se-	servation Association, Canadian
curing—R. C. Bryant 571	Forestry Association, American
Coeur D'Alene Policy, Forest Service States407	Forestry Association, Eastern For-
Collaborators Conference, The Weeks Law	esters at Lakewood; New York
—Louis S. Murphy 113	State Forestry Association, Louis-
Colorado Grazing Notes 931	iana Forestry Association, A Con-
Colorado Has Small Loss-W. G. M.	gress of Forestry; North Carolina
Stone	Forestry Association, Wood Pre-
Colorado School of Forestry 343	serving Congress; International
Coming Meetings:	Forest Congress; Canadian For-
51-97-163-397-490-523-631-821	estry Association, National Lumber
Commission's Report, The Appalachian 48	Manufacturers' Association, Can-
Committee Investigations, Forest 262	adian Forestry Convention; Fifth
Committee of the National Conservation	National Conservation Congress.
Congress	Co-operation Prevents Forest Fires 703
Conference in New Hampshire, Forestry 465	Co-operative Forest Fire Protection 592
Conference in The White Mountains, An-	Co-operative Study of Forest Conditions
nual Forest	in North Carolina 560
Conference, The Weeks Law Collaborators	Cork Oak, An Exotic with Commercial
—Louis S. Murphy	Possibilities—George deS. Canavar-
Congress, International Forest	ro
Congress of Forestry, A	Cornell, A Fifth Professor of Forestry at 492
Connecticut, Forest Fires in—W. O.	Cornell Forestry Department, More Land
Filley	for
Connecticut Law for Taxation of Forest	Correction, A
Lands, The Recent—Herman H.	Crop, Basket Willows a Profitable—
Chapman	George N. Lamb
Conservation Association, Work of the	Current Literature (Department of Mag-
Western Forestry and—E. T. Allen 36	azine)62, 134, 203, 273, 344, 422,
Conservation Congress, Forestry at the . 969	497, 565, 637, 706, 821, 987
Conservation Congress, Polestry at the Source Conservation Legislation in Vermont,	Cutting Timber, Waste in—R. C. Bryant. 790
Recent—Austin F. Hawes 323	Damage in California, \$250,000—G. M.
Conservation, Lumbermen end—J. B.	Homans
White	Death of Dr. William A. Buckhout 61
Conservation Movement, The—Address	Death of Fred Gordon Plummer 628
by Hon. Walter L. Fisher at the	Decalogue, The Farmer's
Annual Meeting of the American	Decreased Damage by Fire
	Decreasing the Fire Hazard
Forestry Association	Demands of the National Forests for
Conservation, Mr. Pack on	Technical Work and Trained Men
•	
Conservation of the Natural Resources of	-W. B. Greeley 326
the Nation, The—Henry Sturgis	Development of Fire Protection in the
Drinker, LL. D	States—J. Girvin Peters 721
Conservation of Water — Walter Mc-	Development on National Forests, Power. 550
Culloh	Directors' Meetings, American Forestry
Conservation, Oregon for—Hon. Oswald	Association256, 408, 465, 545
West	Do Broken Bottles Start Fires? 8
Conservation, Practical—J. B. White 462	Du Bois' System of Fire Protection 699
Conservation That I Have Seen, Some	Dynamite in Forest Fire Fighting—War-
Tree—Robert Shackleton 503	ren H. Miller 769

FF

F

Page	Page
Early British Forestry, A New View of-	Fire Loss for 1913, Greatly Reduced—E.
J. S. Holmes	T. Allen
Eastern Foresters at Lakewood 118	Fire Loss, Government Reports Lowest. 684
Eastern National Forests, Additions to— William L. Hall	Fire Losses Reduced, Forest
Eastern National Forestry, The New—	Roskie 978
William L. Hall	Fire Prevention, Forest—Warren H. Mil-
Easterner, The (Poem)—Jack Welch 198	ler
Economic Factors in Private Forestry	Fire Protection, Du Bois' System of 699
Work—E. A. Sterling 932	Fire Protection, Co-operative Forest 592
Editorial: (Department of Magazine)	Fire Protection in the Black Hills 698
52, 128, 194, 266, 337, 810	Fire Protection in the States, Development
Education, Forestry	of—J. Girvin Peters
Educational (Department of Magazine)	Fire Protection of the U. S. Forest Service,
61, 133, 201, 342, 706, 812, 961	The—Agnes C. Laut
Effective Fire Work in Michigan	Fire Protection on the National Forests,
Eliminated, Nebraska Forest Land 325	What Has Been Accomplished in—
Encouraging Forestration of Pennsylvania	H. E. Woolley
Lands (Editorial)	Fire Protection, Pacafic Northwest 487
Endorsed, American Forestry Association. 451	Fire Protection, Telephones for—Carl
Endorsed by Lumbermen	Bush
Estimating White Pine Timber 418	Fire Protection, Wireless in—C. B.
Eucalyptus Tool Handles	Cooper
Exhibit, A Fine Forestry	Fire Protective Work in Oregon 412
Exhibit, Indiana's Forestry	Fire Season in Oregon, The—C. S. Chap-
Exhibition, A Forest	man
Exotic with Commercial Possibilities, Cork	Fires, Co-operation Prevents Forest 703
Oak, an-George de S. Canavarro. 524	Fires?, Do Broken Bottles Start 8
Experimental Farm, An 299	Fires, Fighting Forest
Exploiting the National Parks 945	Class "A" Fire—E. R. Brunke 224
Exposition, A Forest Products 625	Class "B" Fire—E. R. Brunke 452
Exterminating Prairie Dogs	Class "C" Fire—E. R. Brunke 919
Factors in Private Forestry Work, Econ-	
omic—E. A. Sterling 932	Fires, Forest
Fairmount Park, Blight in	Fires in Alaska, Forest
Farmer's Decalogue, The 530	Fires of This Spring, Forest
Federal and State Co-operation in Fire	Fires on National Forests
Protection (Editorial) 128	Fires to Be Reported by Rural Mail Car-
Federal Forest Policy	riers, Forest
Federal Forestry—Henry S. Graves 909	First Appalachian Timber Sale
Fifth National Conservation Congress-	Fish Blindness, Studying
See National Conservation Congress 403	Fisher Endorsed, Secretary
Fifth Professor of Forestry at Cornell, A. 492	Fisher's Recommendations, Secretary 64
Fight Against Chestnut Blight is Sus-	Floods and Forest Cover (Editorial) 266
pended, Pennsylvania's 556	Floods: Their Cause and the Remedy, The
Fighting Forest Fires	Ohio—Robert V. R. Reynolds 277
Class "A" Fire-E. R. Brunke 224	Florida Wants Good Forest Laws 348
Class "B" Fire-E. R. Brunke 452	For More Money Under the Weeks Law 127
Class "C" Fire-E. R. Brunke 919	Forest Academy, Pennsylvania State—
Fine Forestry Exhibit, A	George H. Wirt
Fire, Blowing Out a Forest	Forest and Lumbering Investigations 401
Fire Fighting, Dynamite in Forest-War-	Forest Assistant, The New (Poem)-
ren H. Miller 769	Jack Welch 7
Fire Hazard, Decreasing the	Forest Business Beats the Record 632
Fire Line Law Unconstitutional 529	Forest Committee Investigations 262

CONTENTS

Page	Page
Forest Conditions in Kentucky and	Forest Service States Couer D'Alene
Tennessee—R. Clifford Hall 533	Policy 407
Forest Conditions of Nova Scotia—B. E.	Forest Service, The Fire Protection of the
Fernow	United States—Agnes C. Laut 711
Forest Conference at Lake Sunapee 545	Forest Service, Timber Sale of the 34
Forest Congress, International 334	Forest Service to the Mining Industry, The
Forest Engineers Announcement 363	Relation of the-R. Y. Stuart 154
Forest Entomology in America, Society	Forest Service Unjustly Criticised (Edi-
for the Advancement of	torial)53
Forest Exhibition, A	Forest Taxation 885
Forest Fire, Blowing Out a 626	Forest Thoughts (Poem)—Augusta E.
Forest Fire Losses Reduced 265	Campbell
Forest Fire Prevention-Warren H. Miller 364	Forest Work in Hawaii, A Record of 600
Forest Fire Prevention in Vermont-	Foresters Annual Bag 966
Robert M. Ross 752	Foresters at Lakewood, Eastern 118
Forest Fire Protection, Co-operative 592	Foresters Become Nurserymen 258
Forest Fire Situation in North Carolina-	Forestry, A New View of Early British-
J. S. Holmes	J. S. Holmes 485
Forest Fire Warning, Widespread 418	Forestry Association, New York State 120
Forest Fire Work in New Hampshire—	Forestry Association, Pennsylvania 21
Philip W. Ayres	Forestry at Cornell, A Fifth Professor of 492
Forest Fires. 876	Forestry at the National Conservation
Forest Fires, Fighting	Congress
Class "A" Fire—E. R. Brunke 224	Forestry Building, \$250,000 for a 405
Class "B" Fire"—E. R. Brunke 452	Forestry, China's Interest in 559
Class "C" Fire—E. R. Brunke 919	Forestry Committee, The
Forest Fire in Alaska	Forestry Committee of the National Con-
	servation Congress
Forest Fires in Connecticut—W. O.	Forestry Conference in New Hampshire. 465
Filley	Forestry Education 871
Forest Fires of This Spring 413	Forestry Engineers Organize Company 411
Forest Fires, State Legislation Relating	Forestry Exhibit, A Fine
to (Table) 190	Forestry, Federal—Henry S. Graves 909
Forest Fires to Be Reported by Rural Mail	Forestry from the Lumberman's Stand-
Carriers 414	point, West Virginia—Merritt Wil-
Forest Insect Ravages Stopped 656	son
Forest Land Eliminated, Nebraska 325	Forestry Investigations, Reports on 643
Forest Lands, The Recent Connecticut	Forestry, Lumbermen and—J. E.
Law for the Taxation of-Herman	Rhodes
H. Chapman 593	Forestry Movement in America, The
Forest News Notes	Incipiency of the—Romeyn B.
Forest Notes	Hough
Forest Officers as Game Protectors 489	Forestry Meeting, Canadian
Forest, Opposes Abolishing Chugach 406	Forestry Movement, The Spread of the
Forest Planting, An Argument for-	—Dr. Henry S. Drinker 175
Montgomery Rollins 395	Forestry Publicity Work 892
Forest Products Exposition, A 625	Forestry, Resolutions on
Forest Ranger Course	Forestry, The New Eastern National—
Forest Resources of Alabama, The-Rol-	William L. Hall
and M. Harper	Forestry Work, Economic Factors in
Forest Sale, Kaniksu	Private—E. A. Sterling 932
Forest Service, Attack on the	Forests and the Live Stock Industry, The
Forest Service, Attack on the	
	National—L. F. Kneipp 87 Forests as a People's Playground, The
Forest Service Receipts, States Get a	Notional Armos C. Laut
Third of 633	National—Agnes C. Laut 349

00000

G

G

G

G G

G

Gy Ha Ha Ha Im

Page	Pa	ge
Forests, Biltmore and Pisgah 256		51
Forests, Management of White Pine-	Improving Yosemite Park 95	51
Austin F. Hawes 612	Incipiencey of the Forestry Movement in	
Forests of Arizona, The Fossil-F. H.	America, The-Romeyn B. Hough. 54	17
Knowlton	Increased Grazing in California Forest 62	27
Forests, Protecting the	Indiana's Forestry Exhibit	30
Forests to Assure Pure Water 491	Indians on the Warpath Against Tree	
Forests Under Management, Turpentin-	Killers	14
ing—Barrington Moore 219	Industries of California, The Wood-Using	-
Forty-One Thousand, One Hundred and	-Andrew K. Armstrong 23	14
Fifty Acres Withdrawn	Industry, The Lumber—R. C. Bryant 67	
Fossil Forests of Arizona, The—F. H.	In Reconnaissance Camp (Poem)—A. G.	
Knowlton	Jackson	5
Four Months' Sourveying Trip, A 264	Insect Ravages Stopped, Forest	
Future, Looking Into the—Asbury F.	International Forest Congress	
Lever	Investigations, Forest and Lumbering 40	
Game Protectors, Forest Officers as 489	Investigations, Forest Committee 26	
Gas Contained in Cavities of Trees-J.	Investigations, Report on Forestry 64	
A. Ferguson	Ireland Here, Chief Forester of	
Gas in Tree Cavities—William P. Phillips. 523	Kaniksu Forest Sale	0
Georgia Forest School	Kentucky and Tennessee, Forest Condi-	
Gifford Pinchot's Opinion 416	ditions in—R. Clifford Hall 53	
Ginseng, "The Quest of the Golden	Kentucky is Organizing-J. E. Barton 82	1
Treelet"—Forrest Crissey 646	Killing the Gypsy Moth 56.	3
Golden Treelet, The Quest of the-	Lakewood, Eastern Foresters at 118	8
Forrest Crissey	Lands, British Columbia Timber 42	7
Good Results from Direct Seeding 809	Lath and Shingles, Production of Lumber 96:	1
Good Work in Wisconsin-E. M. Griffith 754	Law Unconstitutional, Fire Line 529	9
Government Announces Terms of Timber	Laws, State and National Water-Charles	
Sale	N. Chadwick 800	0
Government Buffalo Herd is Increased 635	Lebanon, The Cedar of-George V. Nash 392	
Government Finds Variance in Mountain	Legislation in Vermont, Recent Conserva-	_
Surveys	tion—Austin F. Hawes 323	3
Government Reports Lowest Fire Loss 684	Legislation Relating to Forest Fires, State	9
Government Sells Montana Timber 513	(Table)	n
Government Sells Timber in California	Light Burning on Pine Forests 692	
and Arizona508		6
Government to Sell More Montana Tim-		7
	Forests and The-L. F. Kneipp 87	
ber	Local Result of Forest Education, A 233)
Graded Assessment of Reforested Lands—	Locomotives, Spark Arresters on Rail-	
Arthur Goadby	road—Ralph C. Hawley 688	5
Grazing Administration of the National	Logging Operations, Safeguarding-	
Forests in Arizona—R. R. Hill 578	Douglas Rodman	
Grazing in California Forest, Increased 627	Logging Work, Students Do 585	
Grazing Lands, New Plants Discovered in	Looking Into the Future—Asbury F. Lever 98	
Study of 670	Loss for 1913, Greatly Reduced—E. T.	
Grazing Notes, Colorado 931	Allen)
Greatly Reduced Loss for 1913—E. T.	Loss in New York State, \$60,000.—C. R.	
Allen	Pettis 750)
Gypsy Moth, Killing the 563	Loss of \$65,000,000 a Year, A 856	,
Hardwood Manufacturers' Meeting 17	Losses Reduced, Forest Fire 265	;
Harvard School of Forestry 363	Louisiana Forestry Association 122	2
Hawaii, A Record of Forest Work in 600	Lumber Industry, Social Welfare and the-	
mportant Work, An 125	R. C. Bryant 551	
mported Trees, 3,779,041	Lumber Industry, The-R. C. Bryant 671	

1 age	Fage
Lumber, Lath and Shingles, Production of 961	Municipal Water Supply Reserves (Edi-
Lumber Price Lists, Government 645	torial)
Lumber Production by States and Kinds	Nation and the States in Forestry, The-
(Map) 1	Address by Gifford Pinchot 111
Lumbering at Anticosti 171	National Conservation Congress, Fifth 403
Lumbering Investigation, Forest and 401	Charles Lathrop Pack, President
Lumbering Operation, A Conservative-	of the 830
James B. Berry 1	Forestry at the586, 813, 969
Lumberman's Standpoint, West Virginia	Forestry Committee of 401
Forestry from the-Merrit Wilson. 244	Importance to Forestry and Lum-
Lumbermen and Conservation—J. B.	bering Interests 531
White	Mr. Pack's Re-election 967
Lumbermen and Forestry—J. E. Rhodes. 318	Program of Forestry Section of the . 827
	Resolutions on Forestry 980
Lumbermen, Endorsed by	Sub-committees of Forestry Com-
Lumbermen and Our National Develop-	mittee
ment—R. C. Bryant 946	The Forestry Committee of the 834
Maine's Forest Commissioner, Report of 291	What the Congress Accomplished 968
Maintain Government Control (Editorial) 129	-
Malloch, Douglas	National Development, Lumbermen and
Management of White Pine Forests—A.	Our—R. C. Bryant
F. Hawes 612	National Forest, a Miniature 759
Management, Some Results of Scientific	National Forest Administration, Partici-
Forestry—S. B. Elliott 677	pate in 561
Management, Turpentining Forests Under	National Forest Changed, Boundaries of 488
-Barrington Moore 219	National Forest, Power Plant on a 611
Map—Lumber Production by States and	National Forest, Receipts for Good Roads 720
	National Forest, Timber for Sale 333
Kinds	National Forest, Timber Sales 265
Massachusetts Agricultural College 342 Michigan, Effective Fire Work in 755	National Forestry, The New Eastern-
8 /	William L. Hall 164
Michigan, Normal Season in-Marcus	National Forests, Additions to Eastern—
Schaaf	
Miniature National Forest, A 759	William L. Hall
Mining Industry, The Relation of the	National Forests and the Live Stock In-
Forest Service to the—R. Y. Stuart 154	dustry, The—L. F. Kneipp 87
Missouri, University of	National Forests as a People's Playground,
Money for Arizona Forest Reserves 42	The—Agnes C. Laut 349
Monopoly, No Timber 484	National Forests be Turned Over to the
Montana Timber, Government Sells 513	States? Shall the—Herman H.
Montana Timber, Government to Sell	Chapman
More 555	National Forests, Fires on 561
Montana, University of 202	National Forests for Technical Work and
Moth, Killing the Gypsy 563	Trained Men, Demands of the-
Mountain Forest and How it is to be Made	W. B. Greeley
Useful, The White-William L. Hall 620	National Forests in Arizona, Grazing
Mountain Surveys, Government Finds	Administration of the—R. R. Hill 578
Variance in	National Forests, Power Development on 550
Movement, The Conservation-Address	National Forests to the Water Resources
by Hon. Walter L. Fisher at Annual	of New Mexico, The Relation of the
Meeting	—A. C. Ringland 269
Movement, The Spread of the Forestry-	National Forests, What has Been Accom-
Dr. Henry S. Drinker 175	plished in Fire Protection on the-
Much Forestry Activity (Editorial) 130	H. E. Woolley 760
Municipal Forestry, an Interesting Experi-	National Lumber Manufacturers' Associa-
ment in	tion
MCH III	

age

Page	Page
National Park, Yellowstone—Arnold	Ontario Wood Supplies 558
Hague	
National Parks, Exploiting The	
National Timber, The Policy of Selling	las Rodman
(Editorial)	
Natural Resources of the Nation, The	
	Forests, Women Vigorously (Edi-
Conservation of the—Henry Sturgis	torial)
Drinker, LL.D	- Fr
Nebraska Forest Land Eliminated 325	
Needs for Wood Timber, A Plan Adequate	Oregon, Fire Protective Work in 412
To Meet Our—B. E. Fernow 514	Oregon for Conservation—Hon. Oswald
New Eastern National Forestry, The-	West 448
William L. Hall. 164	Oregon, The Fire Season in-C. S. Chap-
New Forest Assistant, The (Poem)-Jack	man
Welch	Overgrazed Stock Ranges Can Come Back 558
New Hampshire, Forest Fire Work in-	Pacific Northwest Fire Protection 487
Philip W. Ayres	
New Hampshire, Forestry Conference in 465	
New Hampshire's Successful Fight—Philip	gress—Norman C. McLoud 830
W. Ayres	
•	
New Mexico, The Relation of the National	Pack's Re-election, Mr.—Norman C.
Forests to the Water Resources of—	McLoud
A. C. Ringland	
New Plants Discovered in Study of Graz-	Paper Pulp, Alaska Timber for 493
ing Lands 670	Parent, A Tree Without a Male 976
New View of Early British Forestry, A-	Parks, Exploiting the National 945
J. S. Holmes 485	Participate in National Forest Administra-
New York State, \$60,000 Loss in-C. R.	tion 561
Pettis 750	Peace Park, A One Hundred Years-T.
New York State Forestry Association 120	Kennard Thomson 691
News Notes, Forest 701	Pennsylvania Forestry Association 21
No Timber Monopoly 484	Pennsylvania Lands, Encouraging Fores-
Normal Season in Michigan-Marcus	tration of (editorial)
Schaaf	Pennsylvania State College 202, 343
North Carolina, Cooperative Study of For-	Pennsylvania State Forest Academy—
estry Conditions in	•
North Carolina Forestry Association. 124	George H. Wirt
	Pennsylvania State Forest School 60
North Carolina Forestry Association Reso-	Pennsylvania, The Blight in—Oliver D.
lutions	Schock
Northwest Fire Protection, Pacific 487	Pennsylvania, Timberland Taxation in 398
Notes, Forest	Pennsylvania's Active Work—George H.
Nova Scotia, Forest Conditions of—B.	Wirt 741
E. Fernow	Pennsylvania's Fight Against Chestnut
Nurserymen, Foresters Become 258	Blight is Suspended556
Nurseries, State vs. Privately Owned	Pennsylvania's Timber Taxation Bills-
(Report of special committee of	Dr. J. T. Rothrock
American Forestry Association) 191	People's Playground, The National Forests
Oak, An Exotic With Commercial Possi-	as a—Agnes C. Laut
bilities. Cork—George deS. Cana-	Pinchot's Approval
varro	Pinchot's Opinion, Gifford
Ohio Floods: Their Cause and the Remedy,	
The—Robert V. R. Reynolds 277	Pine Forests, Light Burning on
•	Pine Forests, Management of White-
Olmsted's New Field of Work, F. E 821	Austin F. Hawes
One Hundred Years Peace Park, A-T.	Pisgah Forests, Biltmore and
Kennard Thomson 691	Pisgah Lands, Will not Purchase 491

CONTENTS

S S S S S S S S S

Page	Pag
Plan Adequate to Meet our Needs for	Receipts, States get a Third of Forest
Wood Timber, A-Dr. B. E.	Service
Fernow	Recent Connecticut Law for Taxation of
Planted 200,000 Seedlings 363	Forest Lands, The—Herman H.
Planting, an Argument for Forest-Mont-	Chapman 593
gomery Rollins 395	Recent Conservation Legislation in Ver-
Plants Discovered in Study of Grazing	mont—Austin F. Hawes 323
Lands, New	Reclamation, Trees to Aid 263
Playground, The National Forests as a	Reconnaissance Camp, In (Poem)—A. G.
Peolpe's—Agnes C. Laut 349	Jackson
Plummer, Death of Fred Gordon 628	Record of Forest Work in Hawaii, A 600
Poet of the Woods, The 544	Redwood Association Work—R. D. Swales 748
Policy, Forest Service States Coeur	Re-Election of Mr. Pack-Norman C.
D'Alene 407	McLoud
Policy of the Forest Service, Timber Sale. 34	Reforested Lands, Graded Assessment of-
Policy of Selling National Timber, The	Arthur Goadby
(Editorial)	Reforesting Sandhills
Power Development on National Forests. 550	Reindeer Progress in Alaska-Lillian E.
Power Plant on a National Forest 611	Zeh 9
Practical Conservation—J. B. White 462	Relation of the Forest Service to the
Practical Operation, A-D. F. Shull 399	Mining Industry-R. Y. Stuart 154
Prairie Dogs, Exterminating 490	Relation of the National Forests to the
Prairie States, Timber Culture in the-	Water Resources of New Mexico,
Hon. L. B. Hanna 450	The-A. C. Ringland 269
Preparing for Timber Sales	Reports on Forestry Investigations 643
Preservative, A Standardized Wood 815	Report on Lumbering, The 850
Prevention, Forest Fire-Warren H. Miller 364	Reports Lowest Fire Loss, Government 684
Private Agencies Doing the Work 261	Resolutions:
Private Forestry Work, Economic Factors	Fifth National Conservation Con-
in—E. A. Sterling 932	gress 980
Problems, Slash Disposal—F. A. Elliott 43	National Lumber Manufacturers
Prodigal, The (Poem)—Jack Welch 497	Association
Production of Lumber, Lath and Shingles. 961	North Carolina Forestry Associa-
Products Exposition, A Forest 625	tion
Protecting the Forests	Resolutions on Forestry
Protection, Cooperative Forest Fire 592	Resources of Alabama, The Forest—Dr.
Protection in the States, Development of	Roland M. Harper 657
Fire—J. Girvin Peters 721	Resources of the Nation, the Conservation
Protection of the United States Forest	of the Natural—Henry Sturgis
Service, The Fire—Agnes C. Laut. 711	
Protection, Telephones for Fire—Carl	Drinker, LL.D
Bush	
	The—E. A. Sterling
	Reviews, Book:
Protective Work in Oregon, Fire 412	Review of Forest Service Investi-
Publications Received	gations, Vol. 1
Publicity Work, Forestry 892	Some Facts About Treating Rail-
Pulp, Alaska Timber for Paper 493	road Ties—W. F. Goltra 562
Purchase of Applachian Forest Land 198	The Important Timber Trees of the
Pure Water, Forests to Assure 491	United States—S. B. Elliott 271
Quest of the Golden Treelet, The—Forrest	Theory and Practice of Working
Crissey	Plans—A. B. Recknagel 982
Question, The States Rights-Hon. John	Wood and Forest—William Noyes. 494
Lamb	Rhode Island's Loss is \$9,000,—Jesse B.
Railroad Locomotives, Spark Arresters on	Mowry
—Ralph C. Hawley 688	Rhodes Installed, J. E 112

Page	Page
Roads, National Forest Receipts for Good. 720	Spread of the Forestry Movement, The-
Safeguarding Logging Operations—Doug-	Dr. Henry S. Drinker 175
las Rodman	Standardized Wood Preservative, A 815
Sale, A 700,000,000 Feet 418	State Forest Academy, Pennsylvania—
Sale, Government Announces Terms of	Goerge H. Wirt 693
Timber	State Forest Policy 897
Sale, Payette River Timber 264	State Legislation Relating to Forest Fires
Sales, National Forest Timber	(Table)
Sales, Preparing for Timber	State News: (Department of Magazine)
Sandhills, Reforesting 233	55, 131, 199, 272, 338, 419, 495, 564,
Saving Chestnut Trees-Roy G. Pierce 248	635, 704, 983
Saw Mill Waste, Utilizing Forest and-	State vs. Privately Owned Nurseries -
H. S. Sackett	(Report of Special Committee of
Scientific Forestry Management, Some	American Forestry Association) 191
Results of—S. B. Elliott 677	State Work:
Scouts as Deputy Tree Wardens, Boy 414	Alabama 647
Secretary Fisher Endorsed	Alaska
Secretary Fisher's Recommendations 64	Arkansas
Secretary Lane's Position (Editorial) 266	California56
Secretary of Agriculture Houston (Edi-	133, 400, 420, 636, 746, 788, 985.
torial)	Colorado58, 759, 931, 983
Seeding, Good Results from Direct 809	Connecticut
Separate Forestry Departments Necessary	Florida
	Georgia
(Editorial)	Indiana
Shade Trees: Their Selection and Care—	Iowa 341
F. A. Gaylord	Kansas
Shall the National Forests be Turned Over	Kentucky 57, 199, 339, 422, 496, 821, 986
to the States?—Herman H. Chap-	Louisiana
man 77	Maine199, 273, 338, 421
Sheep Go Four Months Without Water 634	Maryland56, 272, 565
Sheep Used to Trap Spotted Fever Ticks. 704	Massachusetts . 199, 273, 340, 420, 495
Sheepmen, Summer Range for 493	Michigan
Shingles, Production of Lumber, Lath and 961	200, 272, 341, 421, 495, 564, 637,
Sihlwald, Stream Protection in the-F.	745, 755, 983.
F. Moon 509	Minnesota57, 133, 199, 338
Sixteen Years After	Montana513, 555
Slash Disposal Problems-F. A. Elliott 43	Nebraska 325
Slight Loss in Washington-F. J. Davis 741	New Hampshire
Slight Loss in Washington 978	New Jersey132, 273, 422
Social Welfare and the Lumber Indus-	New York 57
try-R. C. Bryant 551	120, 131, 132, 200, 273, 338, 419,
Society for the Advancement of Forest	495, 705, 750, 984.
Entomology in America 267	North Carolina 57
Some Methods of Securing Closer Utiliza-	124, 200, 339, 419, 564, 704, 749
tion—R. C. Bryant 571	Ohio
Some Results of Scientific Forestry Man-	Oregon
agement—S. B. Elliott 677	272, 342, 412, 565, 448, 636, 737.
Some Tree Conservation That I have Seen	Pennsylvania
-Robert Shackleton 503	131, 195, 338, 339, 398, 421, 705,
South Dakota Fire Losses—George W.	741, 983, 985.
Roskie	Rhode Island 758
Spark Arresters on Railroad Locomotives	South Dakota59, 201, 978, 986
-Ralph C. Hawley 688	Vermont131, 323, 340, 496, 752
Spotted Fever Ticks, Sheep Used to Trap. 704	Washington

Ut

Va Va

Ve Ve

Vii Wii Wii Wii Wii Wii Wii Wii

W

W

Page	Page
West Virginia55, 133, 748	Theory and Practice of Working Plans,
Wisconsin	Review of book by Prof. A. B. Reck-
Territories: Hawaii 600	nagel 982
States Get a Third of Forest Service Re-	Thoughts, Forest (Poem)—Augusta E.
ceipts	Campbell
States in Forestry, The Nation and the-	Timber, A Plan Adequate to Meet Our
Address by Gifford Pinchot 111	Needs for Wood—B. E. Fernow 514
States Rights Movement, The (Editorial). 52	Timber Culture in the Prairie States—
States Rights Question, The-Hon. John	Hon. L. B. Hanna 450
Lamb	Timber for Paper Pulp, Alaska 493
Stock Ranges Can Come Back, Overgrazed 558	Timber in California and Arizona, Govern-
Stream Protection in the Sihlwald—F. F.	ment Sells 508
Moon 509	Timber Lands, British Columbia 427
Students Do Logging Work 585	Timber Monopoly, No 484
Studying Fish Blindness	Timber Research Work in England 376
Studying Paper Woods of New York	Timber Sale, First Appalachian 332
State	Timber Sale, Government Announces
Sub-committees of the Forestry Committee	Terms of
of the Fifth National Conservation	Timber Sale, National Forest
Congress:	Timber Sale, Payette River 264
Education 871	Timber Sale Policy of the Forest Service 34
Federal Forest Policy 901	Timber Sales in California
Forest Planting 857	Timber Sales, National Forest 265
Forest Utilization 862	Timber Sales, Preparing for 197
Forest Fires	Timber Taxation Bills, Pennsylvania's-
Forest Investigations 866	J. T. Rothrock
Forest Taxation 885	m: 1 m P : 1 a : 1
Lumbering 850	Timber, The Policy of Selling National
Publicity 892	(Editorial)
State Forest Policy 896	Timber, Waste in Cutting—R. C. Bryant. 790
Summer Range for Sheepmen 493	Timberland Taxation in Pennsylvania 398
Sunapee, Forest Conference at Lake 545	To Inspect Biltmore Forest
Surveying Trip, A Four Months' 264	To Leave One Tree in Ten
Surveys, Government Finds Variance in	Trained Men, Demands of the National
Mountain	Forests for Technical Work and—
Swedish Increment Borer, The 492	W. B. Greeley 326
Swindler Captured, A	Tree Conservation that I Have Seen,
System of Fire Protection, Du Bois' 699	Some—Robert Shackelton 503
Taxation Bills, Pennsylvania's Timber—J.	Tree Without a Male Parent, A 976
T. Rothrock 477	Treelet, The Quest of the Golden-
Taxation, Forest 885	Forrest Crissey 646
Taxation in Pennsylvania, Timberland 398	Trees, Saving Chestnut-Roy G. Pierce. 248
Taxation of Forest Lands, The Recent	Trees: Their Selection and Care, Shade-
Connecticut Law for-H. H. Chap-	F. A. Gaylord 137
man 593	Trees to Aid Reclamation 263
Taxation of Timberland (Editorial) 128	Turpentining in Forrests Under Manage-
Taxing of Timber, Oppose	ment—Barrington Moore 219
Technical Work and Trained Men, De-	Twilight (Poem)—Robert Strain, Jr., 99
mands of the National Forests for-	Two Million Trees Set Out
W. B. Greeley 326	Unconstitutional, Fire Line Law 529
Telephones for Fire Protection—Carl Bush 43	University of Montana 202
Tenderfoot from Yale," "The-Will C.	University of Washington, The 201
Barnes	University of Wisconsin
Tennessee, Forest Conditions in Kentucky	Using Blight-Killed Chestnut.: 449
and—R. Clifford Hall 533	Utilization of Timber, Closer

Page	Page
Utilization, Some Methods of Securing	What is Needed in Ohio-Edmund
Closer—R. C. Bryant 571	Secrest
Utilizing Forest and Saw Mill Waste-	What the Conservation Congress Accom-
H. S. Sackett	plished—Charles Lathrop Pack 968
Valuable Aid by the Women	White Mountain Forest and How it is to
Vampire Woodsman, The (Poem)-Hans	be Made Useful, The—William L.
Wachsmuth	Hall
Vermont, Forest Fire Prevention in-	White Mountains, Annual Forest Confer-
Robert M. Ross	
Vermont, Recent Conservation Legislation	ence in the
	White Pine Forests, Management of-
in	Austin F. Hawes 612
	White Pine Timber, Estimating 418
Warning, Widespread Forest Fire 418	Will not Purchase Pisgah Lands 491
Washington, Slight Loss in—F. J. Davis. 741	Willow Cuttings, Basket 196
Washington, Slight Loss in	Willows a Profitable Crop, Basket-
Washington, University of	George N. Lamb
Waste from Desks Goes into Brushes 768	Wireless in Fire Protection-C. B. Cooper. 40
Waste in Cutting Timber—R. C. Bryant. 790	Wisconsin, Good Work in-E. M. Griffith. 754
Waste, Utilizing Forest and Saw Mill-	Withdrawn, 41,150 Acres 251
H. S. Sackett	Wood Preservative, A Standardized 815
Water, Conservation of-Walter McCul-	Wood Preserving Congress
loh 777	Wood Supplies, Ontario
Water, Forests to Assure Pure 491	Woods, The Poet of the
Water Laws, State and National—Charles	
N. Chadwick 800	Woodsman, The Vampire (Poem)—Hans
Water Supply Reserves, Municipal (Edi-	Wachsmuth
torial)	Wood-using Industries of California, The—
Weeks Law Collaborators Conference,	Andrew K. Armstrong 234
The-Louis S. Murphy 113	Woodusing Industries of Virginia 400
Weeks Law, For More Money Under the 127	Women, Valuable Aid by the 127
Weeks, Senator-Elect John W. (Photo-	Women Vigorously oppose State Control
graph)	of the National Forests (Editorial). 194
Welcome Foresters!	Work for the Association-Address by
West Virginia Awakened	Henry S. Graves
West Virginia Forestry From the Lumber-	Work of the Western Forestry and Con-
man's Standpoint—Merritt Wilson 244	servation Association—E. T. Allen. 36
Western Forestry and Conservation Asso-	Yale Forest School News
ciation, Work of the—E. T. Allen 36	Yale," "The Tenderfoot from—Will C.
Western Forestry and Conservation Meet-	Barnes
•	
	Yellowstone National Park—Arnold
What Has Been Accomplished in Fire	Hague
Protection on the National Forests	Yosemite Park Imporvements Prevented. 197
—H. E. Woolley	Yosemite Park, Improving 951